

Rhomboceros

by Arya Akhavan (November 2012)

Angles for R.I. = 1.690

57 + 18 girdles = 75 facets

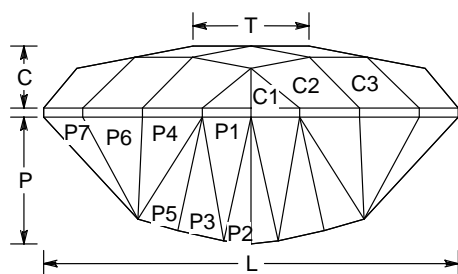
2-fold, mirror-image symmetry

96 index

$L/W = 1.365$ $T/W = 0.382$ $U/W = 0.255$

$P/W = 0.417$ $C/W = 0.204$

$Vol./W^3 = 0.316$



PAVILION

P1	40.75°	03-45-51-93	Cut to centerpoint.
G1	90.00°	03-45-51-93	Set stone width.
P2	40.09°	02-46-50-94	Meet P1, G1
P3	40.89°	04-44-52-92	Meet P1, P2
P4	43.70°	06-42-54-90	Meet P1, G1, P3
G2	90.00°	06-42-54-90	Meet P1, G1, P4
P5	41.83°	05-43-53-91	Meet P1, G1, P3, P4, G2
P6	47.00°	09-39-57-87	Meet P4, P5
G3	90.00°	09-39-57-87	Meet P4, G2, P6
P7	47.39°	12-36-60-84	Meet P4, P5, P6
G4	90.00°	12-36-60-84	Meet P6, G3, P7
P8	47.27°	24-72	Meet P4, P5, P6, P7
G5	90.00°	24-72	Meet P7, G4, P8

CROWN

C1	47.09°	03-45-51-93	Set girdle width.
C2	41.78°	06-42-54-90	Level girdle.
C3	39.45°	09-39-57-87	Level girdle.
C4	38.13°	12-36-60-84	Level girdle.
C5	50.18°	24-72	Level girdle.
C6	16.43°	96-48	Meet C1, C2
C7	9.88°	09-39-57-87	Meet C2, C3, C6
C8	10.85°	24-72	Meet C3, C4, C7; C4, C5
T	0.00°	Table	Meet C6, C7; C7, C8

I've always wondered how to cut a rhomboid checkerboard, so I decided I would mess around. I still haven't figured out how to "properly" do it, so I just took a 3x3 square checker and stretched it. Ah well... I prefer this in tanzanite, but can be cut in materials from beryl to rutile (RI = 1.58 - 2.62) with no changes.

Suggested length = 10-15 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Rhomboceros.gem